DOCKET NO. SAIC0079 **PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Seema SUD, et al.		Art Unit:	2611
App. Serial No.: Patent No.:	10/689,765 7,415,065	Examiner:	Dac V. Ha
Filing date: Issue date:	October 22, 2003 August 19, 2008		

For: ADAPTIVE FILTERING IN THE PRESENCE OF MULTIPATH

REQUEST FOR CERTIFICATE OF CORRECTION

U.S. Patent and Trademark Office
Customer Service Window
Attn: Certificate of Correction Branch
Randolph Building
401 Dulany Street
Alexandria, VA 22314

Sir:

The undersigned requests that a Certificate of Correction be issued for the above-identified patent as indicated on the attached Form PTO/SB/44 (04-05).

This request is being made in order to correct the errors in the Claim section of the patent.

Since this Request for Certificate of Correction is being filed due to an error by the U.S. Patent and Trademark Office, no fees are believed to be necessary. However, the Commissioner is hereby authorized to charge any additional fees which may be required, or to credit any overpayment, to Deposit Account No. 50-4402.

Respectfully submitted,

Date: October 8, 2008

By: */George T. Marcou, Reg. No. 33,014/*
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PTO/SB/44 (09-07)
Approved for use through 08/31/2010. OMB 0651-0033
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO : 7,415,065

Page 1 of 2

APPLICATION NO. : 10/689,765

ISSUE DATE : August 19, 2008

INVENTOR(S) : Seema SUD and Wilbur MYRICK

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

IN THE CLAIMS:

In Column 8, please replace Claim 1 with:

1. A method for adaptive filtering a signal received over a channel subjected to multipath effects, the method comprising:

determining filter coefficients $\hat{\vec{c}}$, such that $\hat{\vec{c}} = E\left[\hat{\vec{r}}\hat{\vec{r}}^{H}\right]^{-1}\hat{\vec{s}}_{\text{desired}}$, where

E is the expected value operator,

$\hat{\vec{r}}$ is the received signal,

$\hat{\vec{s}}_{\text{desired}}$ is the modified steering vector of the desired signal, and

$\hat{\vec{s}}_{\text{desired}} = \vec{s}_{\text{desired}} * \vec{h}$, where

$\vec{h} = [h_1, h_2, \ldots h_L]$ is a discrete time estimate of the effect of multipath on the channel and *L* is the delay spread of the channel for the estimate.

In Column 9, please replace Claim 5 with:

5. A computer program product for adaptive filtering a signal received over a channel subjected to multipath effects, the computer program product comprising:
a computer-readable medium;
at least one program module stored on the medium, the at least one program module operative to:

determining filter coefficients $\hat{\vec{c}}$, such that $\hat{\vec{c}} = E\left[\hat{\vec{r}}\hat{\vec{r}}^{H}\right]^{-1}\hat{\vec{s}}_{\text{desired}}$, where

E is the expected value operator,

$\hat{\vec{r}}$ is the received signal,

$\hat{\vec{s}}_{\text{desired}}$ is the modified steering vector of the desired signal, and

$\hat{\vec{s}}_{\text{desired}} = \vec{s}_{\text{desired}} * \vec{h}$, where

$\vec{h} = [h_1, h_2, \ldots h_L]$ is a discrete time estimate of the effect of multipath on the channel and *L* is the delay spread of the channel for the estimate.

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UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

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APPLICATION NO. : 10/689,765

ISSUE DATE : August 19, 2008

INVENTOR(S) : Seema SUD and Wilbur MYRICK

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

IN THE CLAIMS (CONT'D.):

In Column 10, Line 22, please change "onto the nulispace of the correlation direction vector of" to -- onto the nullspace of the correlation direction vector of --

In Column 10, please replace Claim 9 with:

9. A method for adaptive filtering in a Multistage Wiener Filter (MWF) of a signal received over a channel subjected to multipath effects, the method comprising:

determining filter coefficients $\hat{\underline{c}}$, such that $\hat{\underline{c}} = E\left[\hat{\underline{\underline{r}}}\hat{\underline{\underline{r}}}^H\right]^{-1}\hat{\underline{s}}_{\text{desired}}$, where

E is the expected value operator,

$\hat{\underline{\underline{r}}}$ is the received signal,

$\hat{\underline{s}}_{\text{desired}}$ is the modified steering vector of the desired signal, and

$\hat{\underline{s}}_{\text{desired}} = \underline{s}_{\text{desired}} * \underline{h}$, where

$\underline{h} = [h_1, h_2 \ldots h_L]$ is a discrete time estimate of the effect of multipath on the channel and *L* is the delay spread of the channel for the estimate.

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